IN THE CLAIMS:

Please AMEND claims 1-17, as shown below.

1. (Currently Amended) A method, comprising: of
controlling link adaptation in a packet radio system, the method comprising:
receiving a CQI (channel quality indicator) report, the CQI channel quality
indicator report including a number of parallel multi-codes, a transport block size, TBS,
and a modulation scheme to be used in link adaptation;

calculating an effective code rate, ECR, based on the received CQIchannel quality indicator report;

when a number of parallel multi-codes of the CQIchannel quality indicator report exceeds a number of multi-codes available for transmission calculating new estimates for the effective code rate, ECR, and the transport block size, TBS, based on a ratio of the number of multi-codes of the CQIchannel quality indicator report and the number of multi-codes available for transmission, and executing link adaptation based on new estimates for the effective code rate, ECR, and the transport block size, TBS.

2. (Currently Amended) The method of claim 1, when calculating the new estimate for the effective code rate, ECR, the method further comprising, when calculating the new estimate for the effective code rate:

number of multi-codes by the CQIchannel quality indicator report and the maximum number of multi-codes available for transmission and multiplying the result by the number of ten; and

calculating the new estimate for the effective code rate, ECR, based on the calculated increase factor and the effective code rate, ECR, of the CQIchannel quality indicator report.

3. (Currently Amended) The method of claim 2, the method further comprising: forming a table with the function of an energy to symbol to noise ratio, EsNo, and the effective code rate, ECR; and

obtaining the new estimate for the effective code rate, ECR, based on the table with the function of the energy per symbol to noise ratio, EsNo, and the effective code rate, ECR, the increase factor and the modulation scheme.

4. (Currently Amended) The method of claim 1, when calculating the new estimate for the transport block size, TBS, the method further comprising, when calculating the new estimate for the transport block size:

quantizing the product between the new estimate for the effective code rate, ECR, a number of bits per transmission time interval, TTI, for each multi-code, and the

maximum number of multi-codes that the base station has available for transmission, to the nearest possible transport block size.

- 5. (Currently Amended) The method of claim 1, wherein further comprising:

 calculating the effective code rate, ECR, proposed by the CQIchannel quality

 indicator report is calculated based on the ratio of the transport block size, TBS, of the

 CQIchannel quality indicator report to a product of the number of multi-codes and the

 number of bits per transport time interval, TTI, for each multi-block.
- 6. (Currently Amended) The method of claim 1, further comprising: selecting the modulation scheme to be used in link adaptation based on the received CQIchannel quality indicator report, the modulation scheme being QPSK (quadrature phase shift keying) or 16QAM (16-quadrature amplitude) modulation scheme.
- 7. (Currently Amended) The method of claim 6, further comprising: selecting the 16QAM16-quadrature amplitude modulation scheme, when the number of multi-codes that the base station has available for transmission is smaller than the number of multi-codes of the CQIchannel quality indicator report.
 - 8. (Currently Amended) The method of claim 1, wherein further comprising:

<u>configuring</u> the packet radio system is to be an a HSDPA (Hhigh Speed speed Downlink downlink Packet packet Accessaccess) radio system.

9. (Currently Amended) A packet radio system, the packet radio system being configured to:

receive a CQI (channel quality indicator) report including the number of parallel multi-codes, the transport block size, TBS, and the modulation scheme to be used in calculating a link adaptation estimate;

calculate an effective code rate, ECR;

calculate new estimates for the effective code rate, ECR, and the transport block size, TBS, based on a ratio of the number of multi-codes of the CQIchannel quality indicator report and the number of multi-codes that the packet radio system has available for transmission, when the number of parallel multi-codes of the CQIchannel quality indicator report exceeds the number of multi-codes that the packet radio system has available for transmission; and

execute link adaptation based on the new estimates for the effective code rate, ECR, and the transport block size, TBS.

10. (Currently Amended) The packet radio system of claim 9, wherein the packet radio system is further configured to:

calculate the new estimate for the effective code rate, ECR, by:

number of multi-codes by the CQIchannel quality indicator report and the maximum number of multi-codes that the packet radio system has available for HSDPAhigh speed downlink packet access transmission and multiplying the result by the number of ten;, and

calculating the new estimate for the effective code rate, ECR, from a function of the calculated increase factor and the effective code rate, ECR, of the CQIchannel quality indicator report.

11. (Currently Amended) The packet radio system of claim 10, wherein the packet radio system is <u>further configured</u> to:

form a table with the function of an energy to symbol to noise ratio, EsNo, and the effective code rate, ECR; and

obtain the new estimate for the effective code rate, ECR, based on the table with the function of the energy per symbol to noise ratio, EsNo, and the effective code rate, ECR, the increase factor and the modulation scheme.

12. (Currently Amended) The packet radio system of claim 9, wherein the packet radio system is <u>further configured to:</u>

calculate the new estimate for the transport block size, TBS, by:

quantizing the product between the new estimate for the effective code rate, ECR, a number of bits per transmission time interval, TTI, for each multi-code, and the maximum number of multi-codes that the packet radio system has available for transmission, to the nearest possible transport block size.

- 13. (Currently Amended) The packet radio system of claim 9, wherein the effective code rate, ECR, proposed by the CQIchannel quality indicator report is based on a ratio of the transport block size, TBS, of the CQIchannel quality indicator report to a product of the number of multi-codes and the number of bits per transport time interval, TTI, for each multi-block.
- 14. (Currently Amended) The packet radio system of claim 9, wherein the packet radio system is <u>further configured to:</u>

Select the modulation scheme to be used in link adaptation based on the received CQIchannel quality indicator report and the modulation scheme is one of QPSK (quadrature phase shift keying) and 16QAM (16-quadrature amplitude) modulation scheme.

15. (Currently Amended) The packet radio system of claim 14, wherein the packet radio system is <u>further configured to:</u>

select the 16QAM16-quadrature amplitude modulation scheme, when the number of multi-codes that the base station has available for transmission is smaller than the number of multi-codes of the CQIchannel quality indicator report.

16. (Currently Amended) The packet radio system of claim 9, wherein the packet radio system is an HSDPA (Ha high Speed speed Downlink downlink Packet packet Accessaccess) radio system.

17. (Currently Amended) A packet radio system, said system-comprising:
receiving means for receiving a channel quality indicator report, the channel
quality indicator report including a number of parallel multi-codes, a transport block size,
and a modulation scheme to be used in link adaptation;

first calculating means for calculating an effective code rate based on the received channel quality indicator report;

second calculating means for calculating new estimates for the effective code rate when the number of parallel multi-codes of the channel quality indicator report exceeds a number of parallel multi-codes available for transmission; and

executing means for executing link adaptation when the number of parallel multicodes of the channel quality indicator report exceeds a number of parallel multi-codes available for transmission, based on new estimates for the effective code rate and the transport block size.